2005 NAIP Survey
Executive Summary
For
Indiana

USDA
Farm Service Agency

Aerial Photography Field Office

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Contents

Section 1

1.0 Introduction

The primary purpose of NAIP is to acquire peak growing season "leaf on" imagery, and deliver this imagery to United States Department of Agriculture (USDA) County Service Centers in order to maintain Common Land Unit (CLU) boundaries and assist with crop compliance and a multitude of other farm programs.

As evidenced by the types of customers requesting NAIP imagery, the imagery has other purposes as well. Although our primary customers are States and County Service Centers, other uses for NAIP imagery, including military, real estate, recreation, planning, etc., cannot be overlooked.

NAIP is a program with a relatively short history, beginning with pilot projects in 2001 and 2002, and moving to full volume acquisition in 2003 to 2005, based on funding and partnering. NAIP is moving out of the research and development phase and into sustainment status. By moving into a sustainment phase, a program can build and evaluate a quality business process, and stabilize. Part of this process is evaluating how NAIP is working for its primary customers.

1.1 Purpose and Scope

The focus of this document is to assess in a qualitative manner how NAIP is satisfying customer needs in Indiana. In other words, "How did APFO do in providing *useful* NAIP imagery for its primary customer?" Answering this question comprises the purpose and scope.

1.2 Survey Submittals

For the initial disposition, the following States were sent surveys to disseminate to County Service Centers for completion: WA, OR, OK, KS, NE, MO, IA, MN, WI, IL, **IN**, OH, CT, and NC. No responses were received from KS or AZ by the 15 Dec 2005 due date. WA noted that they would respond to the survey, but due to imagery delivery/redelivery dates, responses would likely be after 15 Dec.

A second waive of surveys was sent to the following States to disseminate to County Service Centers for completion: CA, CO, MT, ND, SD, TX, LA, MS, AL, GA, FL, SC, VA, MD, PA, MI, RI, and CT. Responses were requested by 17 Feb, and by 9 Mar for select states which received imagery "late". Surveys were accidentally sent to CT twice, however, County Service Centers only responded once. LA noted that they would only be able to get a few Counties to complete the survey by the 9 Mar due date. MI noted they would not be able to participate in the survey because of CIR rework that would be completed after the survey due date. MT noted that due to the late distribution of imagery, surveys would likely be returned after the 9 Mar due date. During the second waive of surveys, no survey responses were received by CO, GA, MI, or AL. Surveys received after 9 Mar 06 were not scored.

Section 2

2.0 Qualitative Evaluation Summary

NAIP Assessment Surveys were provided by email to County Service Centers via the State Office and responses were requested by 15 Dec 05. Out of the responses received, in Indiana, 1210 of a possible 1490 points were achieved, for a weighted average score out of 1.0 of .812, for a rating of 81.2%. Translated into survey terms, this is an overall rating of "Satisfied". The map on the following page graphically represents overall survey results by county. These results indicate that generally the counties that participated in the survey were satisfied with 2005 NAIP and that the products met customer needs most of the time. However, there is room for improvement.

Most textual comments from the survey revolved around color quality and timing of imagery acquisition and delivery. Textual comments can be found in the Executive Summary Supplementals 1 and 2. A statistical summary by question of survey results is shown below: Note that Q1-8 are out of a possible 5 points and Q9-10 are out of a possible 10 points. Statistically, the lowest average scoring question was Q7, "Is the imagery useful for government coordination, for example, in communications with other Federal, State or local agencies?" Statistically, the highest scoring question was Q1, "Was the imagery received by your office in time to be useful for crop compliance work?"

Q1		*Q2*		*Q3*		*Q4*		*Q5*	
Mean	4.333333333	Mean	4.148148148	Mean	4.185185185	Mean	4.32	Mean	3.894736842
Standard Error	0.141219758	Standard Error	0.17462784	Standard Error	0.151319336	Standard Error	0.160416126	Standard Error	0.214867521
Median	4	Median	4	Median	4	Median	4	Median	4
Mode	5	Mode	4	Mode	4	Mode	5	Mode	5
Standard Deviation	0.733799386	Standard Deviation	0.907392872	Standard Deviation	0.786278334	Standard Deviation	0.802080628	Standard Deviation	0.936585812
Sample Variance	0.538461538	Sample Variance	0.823361823	Sample Variance	0.618233618	Sample Variance	0.643333333	Sample Variance	0.877192982
Kurtosis	-0.817142857	Kurtosis	4.3911457	Kurtosis	0.822321986	Kurtosis	1.462150296	Kurtosis	-0.982411765
Skewness	-0.630767962	Skewness	-1.645842338	Skewness	-0.863192648	Skewness	-1.197325303	Skewness	-0.226102834
Range	2	Range	4	Range	3	Range	3	Range	3
Minimum	3	Minimum	1	Minimum	2	Minimum	2	Minimum	2
Maximum	5	Maximum	5	Maximum	5	Maximum	5	Maximum	5
Sum	117	Sum	112	Sum	113	Sum	108	Sum	74
Count	27	Count	27	Count	27	Count	25	Count	19

Q6		*Q7*		*Q8*		*Q9_X2*		*Q10_X2*	
Mean	4.153846154	Mean	3.6	Mean	3.833333333	Mean	8.222222222	Mean	7.777777778
Standard Error	0.18138194	Standard Error	0.272554058	Standard Error	0.177203178	Standard Error	0.246533421	Standard Error	0.343159998
Median	4	Median	3	Median	4	Median	8	Median	8
Mode	5	Mode	3	Mode	3	Mode	8	Mode	8
Standard Deviation	0.924870053	Standard Deviation	1.055597326	Standard Deviation	0.868114732	Standard Deviation	1.28102523	Standard Deviation	1.783111656
Sample Variance	0.855384615	Sample Variance	1.114285714	Sample Variance	0.753623188	Sample Variance	1.641025641	Sample Variance	3.179487179
Kurtosis	-0.733179487	Kurtosis	-1.17357002	Kurtosis	-1.617891724	Kurtosis	-0.365625	Kurtosis	-0.321415193
Skewness	-0.655351642	Skewness	0.117715678	Skewness	0.346381981	Skewness	-0.09367497	Skewness	-0.473257502
Range	3	Range	3	Range	2	Range	4	Range	6
Minimum	2	Minimum	2	Minimum	3	Minimum	6	Minimum	4
Maximum	5	Maximum	5	Maximum	5	Maximum	10	Maximum	10
Sum	108	Sum	54	Sum	92	Sum	222	Sum	210
Count	26	Count	15	Count	24	Count	27	Count	27

2005 NAIP - Overall Qualitative Survey Results